



Exhibit 1

Claims on Appeal

*Pending claims.*

*1-25, 27.*

- \* *See*  
Examiner's  
Amendment
1. A method for producing a conditionally-immortalized human mesencephalon neural progenitor cell, comprising:
    - (a) plating human mesencephalon cells on a first surface and in first growth medium that permits proliferation;
    - (b) transfecting said progenitor cells with DNA encoding a selectable marker and an externally-regulatable growth-promoting protein; and
    - (c) selecting an adherent monolayer of the transfected cells on a second surface and in a second serum-free growth medium that permits attachment and proliferation, wherein the second serum-free growth medium comprises FGF-2, EGF and PDGF, and therefrom producing a conditionally-immortalized human mesencephalon cells in which the growth-promoting protein is regulated by an external factor, such that suppression of the growth-promoting protein results in differentiation of the cell into a neuron.
  2. The method of claim 1 wherein the first and second surfaces are independently selected from the group consisting of substrates comprising one or more of a polyamino acid, fibronectin, laminin or tissue culture plastic.
  3. The method of claim 1 wherein the growth-promoting gene is an oncogene.
  4. The method of claim 3 wherein the oncogene is v-myc.
  5. The method of claim 1 wherein expression of the growth-promoting gene is inhibited by tetracycline.
  6. A conditionally-immortalized human mesencephalon neural progenitor cell capable of differentiation into neurons, wherein the cell is transfected with DNA encoding a growth-promoting protein that is regulated by an external factor, such that suppression of the growth-promoting protein results in differentiation of the cell into a neuron, and wherein the cell is polygonal and grows as an adherent monolayer.
  7. A conditionally-immortalized human mesencephalon neural precursor cell according to claim 6, wherein the cell is capable of differentiation into dopaminergic neurons.

\* *See*  
Examiner's  
Amendment

8. A conditionally-immortalized human mesencephalon neural precursor cell according to claim 6, wherein the cell is capable of differentiation into GABA-ergic neurons.

9. A method for producing a neuron, comprising culturing a cell produced according to claim 1 in the presence of at least one differentiating agent under conditions that inhibit expression of the growth-promoting gene.

10. A method according to claim 9, wherein the cell is cultured in medium comprising tetracycline.

13. A neuron produced according to the method of claim 9.

14. A dopaminergic neuron produced according to the method of claim 9.

15. A GABA-ergic neuron produced according to the method of claim 9.

23. A conditionally-immortalized human mesencephalon neural precursor cell produced according to the method of claim 1.

24. A cell according to claim 23, wherein the cell is present within a clonal cell line.

25. The method of claim 9, wherein the differentiating agent comprises the combination of forskolin, GDNF and CNTF.

26. The method of claim 25, wherein the differentiating agent comprises the combination of forskolin, GDNF, CNTF, IGF-1 and BDNF.

27. The method of claim 9 wherein said differentiating agent comprises GDNF.

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Amendment